



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101

November 17, 2008

MEMORANDUM

SUBJECT: Data validation report for the Volatile Organic (VOC), Semi-Volatile Organic (SVOC), Organochlorine Pesticide (Pest) and Polychlorinated Biphenyl (PCB) analyses of samples from the Larson Air Force Base Titan Missile Facility S-3 Site Case: 37954 SDG: JAHC6

FROM: Raymond Wu, QA Chemist
Office of Environmental Assessment *LS 11/18/08*

TO: Ken Marcy, Site Assessment Manager
Office of Environmental Cleanup – Brownfield Unit

CC: Alexis Ande, Project Manager
TechLaw, Inc.

The quality assurance (QA) review of 8 water samples collected from the above referenced site has been completed. The samples were analyzed for VOC, SVOC, Pesticide, and PCB in accordance with USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Multi-Concentration Organic Analyses (SOM01.2) by A4 Scientific in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: JAHC6

JAHC6 JAHC7 JAHC9 JAHD0 JAHD1 JAHD2 JAHD5
JAHD6

DATA QUALIFICATIONS

The following comments refer to the laboratory performance specification outlined in the Quality Assurance Project Plan (for Larson Air Force Base Titan S-3 Facility Site, WA) dated July 15, 2008, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and applicable criteria set forth in the USEPA CLP National Functional Guidelines for Organic Data Review (07/2007). Note that some of the analytical data reported may be qualified based on the professional judgment of the data reviewer.

The conclusions presented herein were based on the information provided for the review.

Holding Time - Acceptable

All of the samples met the extraction, Validated Time of Sample Receipt (VTSR),

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extraction and analytical holding time criteria for VOC, SVOC, Pesticide and PCB analyses. The samples were collected on 10/22/08 – 10/23/08, received by the laboratory on 10/25/08, preserved in hydrochloric acid or ice, analyzed for VOC within 14 days of sample collection & extracted within 7 days of sample collection for the SVOC, Pesticide and PCB. The samples were analyzed for SVOC, Pesticide and PCB within 40 days of sample collection. The cooler temperatures, upon the verified time of sample receipt (VTSR), were at 5°C. That was within the acceptable limits of 2-10 °C. None of the data was qualified on this basis.

Instrument Performance Checks - Acceptable

Four GC/MS systems were used for the sample analyses which met the performance checks, ion abundance criteria and retention time stability checks. All of the samples were analyzed within acceptable 12-hour QC periods. The instruments used remained stable throughout the course of analyses. None of the data was qualified on this basis.

Initial Calibrations (ICAL)

Volatile

- One Volatile ICAL was evaluated in this report. It met the technical acceptance criteria set forth by the SOW for the percent relative standard deviation (%RSDs), chromatographic resolutions, retention times, and the minimum relative response factors (RRFs) for all target compounds and surrogates with exceptions of the following:
 - The %RSDs for 1,2,4-Trichlorobenzene (%RSD @ 33.2) & 1,2,3-Trichlorobenzene (%RSD @ 32.7) exceeded the 30% QC limit. Recalculations indicated that the instrument was not linear at the lowest standard concentration analyzed during the initial calibration. They were qualified as J/UJ.

Note: 1,4-Dioxane was lower than the required minimum RRF (0.01) and it was not detected in any associated samples. Due to the possibility of false negatives, all 1,4-dioxane results were qualified unusable, "R".

Semivolatile

- One Semivolatile ICAL was evaluated in this report. It met the technical acceptance criteria set forth by the SOW for the percent relative standard deviation (%RSD), chromatographic resolutions, retention times, and the minimum relative response factors (RRFs) for all target compounds and surrogates with exceptions of the following:
 - The %RSD of 2,4-Dinitrophenol (%RSD @ 34.3) exceeded the 30% QC limit. Recalculations indicated that the instrument was not linear at the lowest standard concentration analyzed during the initial calibration. It was qualified as J/UJ.

Pesticide / PCBs

- The frequency of analysis of ICALs for pesticides and PCBs were met. All of the ICALs met the technical acceptance criteria, i.e. the percent relative standard deviation (%RSD), minimum relative

response factors (RRFs), retention time windows, chromatographic resolutions, percent endrin and 4,4'-DDT breakdown (Pesticide only) for all target compounds and surrogates. None of the results was qualified on the basis of ICAL analyses.

Continuing Calibration Verification (CCV)

The frequency of analysis of CCV checks, chromatographic resolution, percent differences (%Ds) between the mean and daily response (calibration) factors, minimum response factors, retention time shifts and percent DDT and endrin breakdowns (pesticide analyses) were met by all target compounds and surrogates. The recoveries of the pesticide standard mixtures were within the control limits. The only exceptions were:

SVOCs

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
10/29/08 17:18 (opening ccv, D-5973)	Benzaldehyde	-35.5	J/UJ	JAHC7, JAHC9 JAHD0->JAHD2 JAHD6
	4-Chloroaniline	-29.4	J/UJ	"
	Hexachlorocyclopentadiene	-30.5	J/UJ	"
	2,4-Dinitrophenol	-34.2	J/UJ	"
	4,6-Dinitro-2-Methylphenol	-37.0	J/UJ	"

Quantitation Limits - Acceptable

The sample results were adjusted for the amount extracted. All of the sample runs met the contract required quantitation limits (CRQLs). The CRQLs were based on the lowest standard concentration analyzed in the initial calibration. Target compounds that were detected at concentrations less than the CRQLs were qualified as estimated, "J". When applicable, all of the "B", "J", "D" and "E" qualifiers applied by the laboratory were crossed out by the reviewer.

Blanks - Acceptable

The frequency of analysis of blank and surrogate recovery criteria were met by all of the blanks analyzed. There were only trace amount of Methylene Chloride detected in the volatile method blank and storage blank. When detected in samples, concentrations less than 10x the blank values, were qualified as non-detects, "U", at the level of detection, or reported "U" at the CRQL. All other blanks were clean and none of the data was qualified on this basis.

Analytical Sequence - Acceptable

All of the standards, blanks, samples, and QC samples were analyzed in accordance with the SOW specified

analytical sequence. The retention times as monitored by the internal standards (VOC, SVOC) and surrogates (VOC, SVOC, Pesticide, PCB) were within the specified RT windows. All of the sample analyses were within an acceptable 12 hour QC period and were bracketed by technically acceptable CCV check standards. None of the data was qualified on this basis.

Surrogates/Deuterated Monitoring Compound (DMC) Recoveries

Fourteen deuterated VOCs were spiked in all the samples and QCs to evaluate laboratory performance. The 14 DMCs and their corresponding recovery acceptance limits are:

“Volatile Water”

DMCs	Recovery Limits (%)	DMCs	Recovery Limits (%)
Vinyl chloride -d3 (VCL)	65-131	1,2- Dichloropropane-d6 (DPA)	79-124
Chloroethane-d5 (CLA)	71-131	Toluene-d8 (TOL)	77-121
1,1- Dichloroethene-d2 (DCE)	55-104	trans-1,3-dichloropropene-d4 (TDP)	73-121
2-Butanone-d5 (BUT)	49-155	2-Hexanone-d5 (HEX)	28-135
Chloroform-d (CLF)	78-121	1,4-Dioxane (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	78-129	1,1,2,2-Tetrachloroethane-d2 (TCA)	73 –125
Benzene-d6 (BEN)	77-124	1,2-dichlorobenzene-d4 (DCZ)	80 –131

All of the water volatile surrogate recoveries met the applicable recovery criteria and none of the data was qualified on this basis.

Surrogates or deuterated monitoring compounds (DMCs) are known concentrations of isotope-labeled acid and base/neutral or polynuclear hydrocarbon compounds added to the field and QC samples prior to extraction for SVOC analyses to monitor the laboratory's performance and efficiency and efficiency during sample processing, extraction and analysis. The following is the list of DMCs/surrogates added to all field and QC samples prior to sample extraction:

“SVOC Water”

DMCs	Recovery Limits (%)	DMCs	Recovery Limits (%)
Phenol-d5 (PHL)	39-106	Dimethylphthalate-d6 (DMP)	47-114
Bis(2-chloroethyl)ether-d8 (BCE)	40-105	Acenaphthylene-d8 (ACY)	41-107
2-Chlorophenol-d4 (2CP)	41-106	4-Nitrophenol-d4 (4NP)	33-116
4-Methylphenol-d8 (4MP)	25-111	Fluorene-d10 (FLR)	42-111
Nitrobenzene-d4 (NBZ)	43-108	4,6-Dinitro-2-methylphenol-d2 (NMP)	22-104

2-Nitrophenol-d4 (2NP)	40-108	Anthracene-d10 (ANC)	44-110
2,4-Dichlorophenol-d3 (DCP)	37-105	Pyrene-d10 (PYR)	52-119
4-Chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	32-121

Sample	DMC	%Recovery	Qualification Detects/Non- detects	Associated SVOCs
JAHC7	NMP	19	J/UJ	4,6-Dinitro-2-methylphenol
JAHC9	NMP	2	J/UJ	"
JAHD0	NMP	7	J/UJ	"
JAHD1	NMP	2	J/UJ	"
JAHD2	NMP	3	J/UJ	"
JAHD6	NMP	14	J/UJ	"

"Pesticide/PCB Water"

Pesticide/PCB Surrogate (water)	Recovery Limits (%)
Tetrachloro-m-xylene (TCX)	30-150
Decachlorobiphenyl (DCB)	30-150

The recoveries of TCX and DCB were calculated and reported from two GCs & four columns used for both pesticides and PCB analyses. The TCX and DCB recoveries were within acceptable control limits in both primary and confirmatory columns on two instruments. None of the data was qualified on this basis.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample JAHC7 was designated for MS/MSD analyses. The frequency of analysis and percent recovery (%R) passed for each of the spiking analytes with exceptions of 4/18 spiking compounds (eg. > upper QC limit) for the semivolatiles. Because none of the spiking compounds were detected in any of the samples, none of the data was qualified by the reviewer on this basis.

Internal Standards - Acceptable

The acceptance criteria for internal standards (IS) was within +/- 30 seconds for retention time (RT) shifts and 50% to 200% of the IS area as compared to the IS RT and area of the daily continuing verification standard. All of the analyses met the IS area & RT criteria and none of the data was qualified on this basis.

Compound Identification - Acceptable

All of the detected target compounds were within the retention time windows, met the USEPA spectral matching criteria and were judged to be acceptable. None of the data was qualified on this basis.

Tentatively Identified Compounds

Chromatographic peaks in the samples with areas > 10% of the nearest Internal Standard, but were not part of the target compound list, were identified as tentatively identified compounds (TICs) at estimated concentrations, "JN"

Laboratory Contact

The laboratory was not contacted during this review.

Overall Assessment

The total number of data points evaluated was 1095. As the result of the data validation, data results were qualified as follows: 0.7% of the total data points were qualified as non-detects, "U"; 5.8% of them were qualified due to calibration; 0.5% of them were qualified due to failing surrogates; 0.7% of them were qualified due to extremely low and unacceptable instrument response.

The data, as qualified, are acceptable and can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.
	L	Low Bias
	H	High Bias
	Q	The result is estimated because the concentration is below the Contract Required Quantitation Limits (CRQLs)
	K	Unknown Bias

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-01		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5776.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UJK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UJK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	2.5 5.0	JB U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XR

Report 1,4-Dioxane for Low-Medium VOA analysis only

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SGMC1.2 1.8/2007

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-01		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5776.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UIK
87-61-6	1,2,3-Trichlorobenzene	5.0	UIK

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SOM01.2 (8/2007)

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHC6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-01
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5776.D
 Level: (TRACE or LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	2.45	5.1	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-02
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5777.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UIK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UIK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	9.2	XU
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XUR

Report 1,4-Dioxane for Low-Medium VOA analysis only

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11/12/08

SOM01.2 (3/2007)

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC7

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-02		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5777.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UJK
87-61-6	1,2,3-Trichlorobenzene	5.0	UJK

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11/12/08

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHC7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-02
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5777.D
 Level: (TRACE or LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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11				
12				
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23				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designed Registry Number.

SCM01.2 (8/2007) 11/12/08

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC9

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-03		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5780.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UJK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UJK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	8.7	XU
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	UR

Report 1,4-Dioxane for Low-Medium VOA analysis only


11/12/08

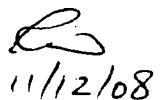
1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC9

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-03		
Sample wt/vol:	5.00	(g/mL)	ml	Lab File ID:	C5780.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UJK
87-61-6	1,2,3-Trichlorobenzene	5.0	UJK


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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHC9

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-03
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5780.D
 Level: (TRACE or LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

SCM01.2 (8/2007)

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHDO

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-04
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5788.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UIK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UIK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	325.0	IR U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromoform	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	IR

Report 1,4-Dioxane for Low-Medium VOA analysis only

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11/12/08

SOM01.2 (8/2007)

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD0

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER		Lab Sample ID:	0009679-04	
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5788.D	
Level:	(TRACE/LOW/MED)	LOW		Date Received:	10/25/2008	
% Moisture:	not dec.			Date Analyzed:	10/29/2008	
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)		Soil Aliquot Volume:	(uL)	
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UJK
87-61-6	1,2,3-Trichlorobenzene	5.0	UJK

SOM01.2 (8/2007)

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHDO

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-04
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5788.D
 Level: (TRACE or LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	2.44	5.5	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHDI

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036		
Lab Code:	A4 Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-05		
Sample wt/vol:	5.00 (g/mL)	mL	Lab File ID:	C5787.D	
Level: (TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture: not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID: 0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0 (mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UIK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UIK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	3-5.0	JB U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromoform	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	FR

Report 1,4-Dioxane for Low-Medium VOA analysis only

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SCM01.2 (8/2007)

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD1

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-05		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5787.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m, p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UJK
87-61-6	1,2,3-Trichlorobenzene	5.0	UJK

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHDI

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-05
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5787.D
 Level: (TRACE or LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 000541-05-9	Cyclotrisiloxane, hexamethyl	9.53	0.4	JN
02 000556-67-2	Cyclotetrasiloxane, octamet...	13.20	10	JN
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036

Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHG6

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5783.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/25/2008

% Moisture: not dec. Date Analyzed: 10/29/2008

GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UJK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UJK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.6	BU
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XR

Report 1,4-Dioxane for Low-Medium VOA analysis only

11/12/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD2

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-06		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5783.D	
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UJK
87-61-6	1,2,3-Trichlorobenzene	5.0	UJK

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD2

Lab Name:	A4 SCIENTIFIC, INC.		Contract:	EPW05036		
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHG6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-06		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5783.D	
Level:	(TRACE or LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20	(mm)	Dilution Factor:	1.0
Soil Extract Volume:		(uL)	Soil Aliquot Volume:		(uL)	
CONCENTRATION UNITS:	(ug/L or ug/kg)	ug/L	Purge Volume:	5.0	(mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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14				
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19				
20				
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23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

SCM01.2 (8/2007)

11/12/08

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHDS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-07
 Sample wt/vol: 5.00 (g/mL) ml Lab File ID: C5784.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UJK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UJK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	45 5.0	BB U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XR

Report 1,4-Dioxane for Low-Medium VOA analysis only



11/12/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHDS

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-07
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5784.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	JK
87-61-6	1,2,3-Trichlorobenzene	5.0	JK

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SOM01.2 (3/2007)

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IJ - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD5

Lab Name:	A4 SCIENTIFIC, INC.		Contract:	EPW05036		
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHG6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-07		
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5784.D	
Level:	(TRACE or LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID:	0.20	(mm)	Dilution Factor:	1.0
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L			Purge Volume:	5.0	(mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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21				
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27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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11/12/08

SCM01.2 (8/2007)

000000095

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHG6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-08
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: C5785.D
 Level: (TRACE/LOW/MED) LOW Date Received: 10/25/2008
 % Moisture: not dec. Date Analyzed: 10/29/2008
 GC Column: DB-624 ID: 0.20 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	UTK
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UTK
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	2.0-5.0	#U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XR

Report 1,4-Dioxane for Low-Medium VOA analysis only

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11/12/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-08		
Sample wt/vol:	5.00	(g/mL) mL	Lab File ID:	C5785.D		
Level:	(TRACE/LOW/MED)	LOW	Date Received:	10/25/2008		
% Moisture:	not dec.		Date Analyzed:	10/29/2008		
GC Column:	DB-624	ID: 0.20 (mm)	Dilution Factor:	1.0		
Soil Extract Volume:		(uL)	Soil Aliquot Volume:	(uL)		
Purge Volume:	5.0	(mL)				

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	UJK
87-61-6	1,2,3-Trichlorobenzene	5.0	UJK

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD6

Lab Name:	A4 SCIENTIFIC, INC.			Contract:	EPW05036	
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER		Lab Sample ID:	0009679-08	
Sample wt/vol:	5.00	(g/mL)	mL	Lab File ID:	C5785.D	
Level:	(TRACE or LOW/MED)	LOW		Date Received:	10/25/2008	
% Moisture:	not dec.			Date Analyzed:	10/29/2008	
GC Column:	DB-624	ID:	0.20	(mm)	Dilution Factor:	1.0
Soil Extract Volume:			(uL)	Soil Aliquot Volume:	(uL)	
CONCENTRATION UNITS: (ug/L or ug/kg)	ug/L		Purge Volume:	5.0	(mL)	

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-01
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8861.D
 Level: (LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

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11/14/08

SOMC1.1 8/2007;

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036		
Lab Code:	A4 Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-01		
Sample wt/vol:	1000 (g/mL)	mL	Lab File ID:	D8861.D	
Level: (LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:	Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000 (uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0 (uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
51-28-5	2, 4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2, 4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4, 6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1, 2, 4, 5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3, 3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.6	JQ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a, h) anthracene	5.0	U
191-24-2	Benzo (g, h, i) perylene	5.0	U
58-90-2	2, 3, 4, 6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

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11/14/08

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHC6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-01		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8861.D	
Level:	(TRACE or LOW/MED)	LOW	Extraction:	(Type)	CONT	
% Moisture:		Decanted: (Y/N)		Date Received:	10/25/2008	
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup:	(Y/N)	N	pH:		Dilution Factor:	1.0
CONCENTRATION UNITS: (ug/L or ug/kg)				ug/L		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	1.19	57	JN
02	UNKNOWN	1.25	67	J
03	UNKNOWN	1.35	11	J
04 000079-01-6	Trichloroethylene	1.42	2.3	JN
05	UNKNOWN	2.11	4.5	JN
06	UNKNOWN	2.17	8.5	J
07	UNKNOWN	2.20	2.2	J
08	UNKNOWN	3.31	2.6	J
09	UNKNOWN	3.64	2.8	J
10				
11				
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21				
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24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A	5.8	

²EPA-designated Registry Number.

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 11/14/08

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-02
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8865.D
 Level: (LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	UJK
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	UJK
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	UJK
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

R
11/14/08

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC7

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036		
Lab Code:	A4 Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix: (SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-02		
Sample wt/vol:	1000 (g/mL)	mL	Lab File ID:	D8865.D	
Level: (LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:	Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000 (uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0 (uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	UJK
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.6	JQ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine


11/14/08

SOMC1.2 (8/2007)

000000251

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHC7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-02
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8865.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	1.18	47	JN
02	UNKNOWN	1.24	61	J
03	UNKNOWN	1.34	15	J
04	UNKNOWN	2.03	3.7	J
05	UNKNOWN	2.10	6.9	J
06	UNKNOWN	2.17	16	J
07	UNKNOWN	2.20	2.1	J
08	UNKNOWN	3.30	3.0	J
09	UNKNOWN	3.64	3.0	J
10	000111-02-4 2,6,10,14,18,22-Tetracosane...	13.27	19	JN
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

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11/14/08

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC9

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-03		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8866.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:		Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	UJK
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	UJK
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	UJK
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

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11/4/08

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC9

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-03
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8866.D
 Level: (LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	UJK
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

11/14/08

SOMC1.2 (8/2007)

000000276

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHC9

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-03
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: D8866.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	1.18	54	JN
02	UNKNOWN	1.24	98	J
03	UNKNOWN	1.34	12	J
04	UNKNOWN	1.53	2.1	J
05 000544-25-2	1,3,5-Cycloheptatriene	1.80	16	JN
06	UNKNOWN	1.84	2.5	JN
07	UNKNOWN	1.99	2.3	J
08	UNKNOWN	2.03	5.1	J
09	UNKNOWN	2.10	5.0	J
10	UNKNOWN	2.17	14	J
11	UNKNOWN	2.20	2.9	J
12	UNKNOWN	3.30	3.2	J
13	UNKNOWN	3.64	2.9	J
14 000111-02-4	2,6,10,14,18,22-Tetracosahe...	13.27	9.8	JN
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

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 11/14/08

SOM01.2 (3/2007)

000000277

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHDO

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-04
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8867.D
 Level: (LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	UJK
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	UJK
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	UJK
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

R
11/14/08

SOM01.2 (8/2007)

000000302

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD0

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-04		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8867.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:		Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	UJK
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.4	JQ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

R
11/14/08

SDM01.2 .8/2007)

000000303

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD0

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-04		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8867.D	
Level:	(TRACE or LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:	Decanted: (Y/N)		Date Received:	10/25/2008		
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L						

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	1.18	53	JN
02	UNKNOWN	1.24	46	J
03	UNKNOWN	1.34	13	J
04	UNKNOWN	2.03	4.0	J
05	UNKNOWN	2.10	2.8	J
06	UNKNOWN	2.17	6.2	J
07	UNKNOWN	2.20	2.0	J
08	000108-38-3 Benzene, 1,3-dimethyl-	2.55	5.2	JN
09	UNKNOWN	3.30	2.5	JN
10	UNKNOWN	3.64	2.2	JN
11	000111-02-4 2,6,10,14,18,22-Tetracosahe...	13.27	8.6	JN
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

RJ
11/14/08

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD1

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHG6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-05		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8872.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:		Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	UJK
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	UJK
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	UJK
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

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11/14/08

SOM01.2 (3/2007)

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD1

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-05		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8872.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:		Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	UJK
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.0	JQ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

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11/14/08

SOM01.2 (8/2007)

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1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHG6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-05
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8872.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	1.18	57	JN
02	UNKNOWN	1.24	85	J
03	UNKNOWN	1.34	12	J
04	UNKNOWN	1.53	2.1	J
05	UNKNOWN	2.03	5.1	J
06	UNKNOWN	2.10	3.4	J
07	UNKNOWN	2.17	7.0	J
08	000108-38-3 Benzene, 1,3-dimethyl-	2.55	6.2	JN
09	UNKNOWN	3.30	3.1	JN
10	UNKNOWN	3.64	2.8	JN
11	007683-64-9 Squalene	13.26	3.2	JN
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

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11/14/08

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-06
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8868.D
 Level: (LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
100-52-7	Benzaldehyde	5.0	UJK
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	UJK
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	UJK
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

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11/14/08

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD2

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-06		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8868.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:		Decanted: (Y/N)		Date Received:	10/25/2008	
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	UJK
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.4	JQ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

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11/14/08

SOMCI.2 (8/2007)

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1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-06
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: D8868.D
 Level: (TRACE or LOW/MED) LOW Extraction: (Type) CONT
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/27/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 10/29/2008
 GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01	UNKNOWN	1.18	52	JN	
02	UNKNOWN	1.24	53	JN	
03	001569-50-2	3-Penten-2-ol	1.34	12	JN
04	UNKNOWN	2.03	4.7	JN	
05	UNKNOWN	2.10	3.2	J	
06	UNKNOWN	2.17	6.5	J	
07	UNKNOWN	3.30	3.0	J	
08	UNKNOWN	3.64	2.8	J	
09	000111-02-4	2,6,10,14,18,22-Tetracosahe...	13.27	6.0	JN
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
E966796 ²	Total Alkanes	N/A			

²EPA-designated Registry Number.

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 11/14/108

SCM01.2 (8/2007)

000000354

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHC6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-08		
Sample wt/vol:	1000	(g/mL)	mL	Lab File ID:	D8871.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT		
% Moisture:		Decanted: (Y/N)		Date Received:	10/25/2008	
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	UJK
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	UJK
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	UJK
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

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11/4/08

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036		
Lab Code:	A4 Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHG6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-08	
Sample wt/vol:	1000 (g/mL)		Lab File ID:	D8871.D	
Level:	(LOW/MED)	LOW	Extraction: (Type)	CONT	
% Moisture:		Decanted: (Y/N)	Date Received:	10/25/2008	
Concentrated Extract Volume:	1000 (uL)		Date Extracted:	10/27/2008	
Injection Volume:	1.0 (uL)	GPC Factor:	1.0	Date Analyzed:	10/29/2008
GPC Cleanup: (Y/N)	N	pH:		Dilution Factor:	1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	UJK
86-30-6	N-Nitrosodiphenylamine (1)	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo (a) anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	2.0	JQ
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo (b) fluoranthene	5.0	U
207-08-9	Benzo (k) fluoranthene	5.0	U
50-32-8	Benzo (a) pyrene	5.0	U
193-39-5	Indeno (1,2,3-cd) pyrene	5.0	U
53-70-3	Dibenzo (a,h) anthracene	5.0	U
191-24-2	Benzo (g,h,i) perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

R
11/14/08

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHD6

Lab Name:	A4 SCIENTIFIC, INC.	Contract:	EPW05036			
Lab Code:	A4	Case No.:	37954	Mod. Ref No.:	SDG No.:	JAHG6
Matrix:	(SOIL/SED/WATER)	WATER	Lab Sample ID:	0009679-08		
Sample wt/vol:	1000	(g/mL)	ml	Lab File ID:	D8871.D	
Level:	(TRACE or LOW/MED)	LOW	Extraction:	(Type)	CONT	
% Moisture:		Decanted: (Y/N)	Date Received:	10/25/2008		
Concentrated Extract Volume:	1000	(uL)	Date Extracted:	10/27/2008		
Injection Volume:	1.0	(uL)	Date Analyzed:	10/29/2008		
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1.0		
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L						

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	UNKNOWN	1.18	56	JN
02	UNKNOWN	1.24	47	J
03	UNKNOWN	1.34	16	J
04	UNKNOWN	2.03	4.2	J
05	UNKNOWN	2.10	4.5	J
06	UNKNOWN	2.17	10	J
07	UNKNOWN	3.30	2.1	J
08	UNKNOWN	3.64	2.5	J
09	000111-02-4 2,6,10,14,18,22-Tetracosahe...	13.27	4.0	JN
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

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11/14/08

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER). WATER Lab Sample ID: 0009679-01
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: C30329.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/30/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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1G - FORM I PEST
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EPA SAMPLE NO.

JAHC7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-02
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: C30330.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/30/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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SCM01.2 (8/2007)

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC9

Lab Name: A4 SCIENTIFIC, INC.

Contract: EPW05036

Lab Code: A4 Case No.: 37954

Mod. Ref No.: SDG No.: JAHC6

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 0009679-03

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: C30333.D

% Moisture: Decanted: (Y/N)

Date Received: 10/25/2008

Extraction: (Type) SEPF

Date Extracted: 10/27/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 10/30/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieledrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD0

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-04
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: C30334.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/30/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-05
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: C30335.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/30/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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EPA SAMPLE NO.

JAHD2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-06
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: C30336.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/30/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-08
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: C30337.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/31/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC6

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-01
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: F10889.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/28/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N
 ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

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1H - FORM I ARO
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EPA SAMPLE NO.

JAHC7

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-02
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: F10890.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/28/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N
 ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHC9

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-03
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: F10893.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/28/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N
 ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHDO

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-04
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: F10894.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/28/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N
 ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD1

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-05
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: F10895.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/28/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N
 ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U


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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD2

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW05036
 Lab Code: A4 Case No.: 37954 Mod. Ref No.: SDG No.: JAHC6
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 0009679-06
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: F10896.D
 % Moisture: Decanted: (Y/N) Date Received: 10/25/2008
 Extraction: (Type) SEPF Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/28/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N
 ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)ug/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

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SOM01.2 (8/2007)

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHD6

Lab Name: A4 SCIENTIFIC, INC.

Contract: EPW05036

Lab Code: A4 Case No.: 37954

Mod. Ref No.: SDG No.: JAHC6

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: 0009679-08

Moisture: Decanted: (Y/N)

Date Received: 10/05/2008

Extraction: (Type) SEPF

Date Extracted: 10/23/2008

Concentrated Extract Volume: 10000

Date Analyzed: 10/28/2008

Injection Volume: 1.0 (μ L) GPC Factor:

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

ACID Cleanup: (Y/N) Y

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ACID Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
12674-11-2	AR1016	1.0	U
11104-28-2	AR1221	1.0	U
11141-16-5	AR1232	1.0	U
53469-21-9	AR1242	1.0	U
12672-29-6	AR1248	1.0	U
11097-69-1	AR1254	1.0	U
11096-82-5	AR1260	1.0	U
37324-23-5	AR1262	1.0	U
11100-14-4	AR1268	1.0	U

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